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AN - 97:73380 CA
 TI - Binders for shell molds
 PA - Aisin Kako Co., Ltd., Japan; Toyota Motor Co., Ltd.
 SO - Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF

DT - Patent
 LA - Japanese
 IC - C08G008-08; B22C001-22
 CC - 37-3 (Plastics Manufacture and Processing)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PN	JP57059925	A2	19820410	JP 1980-136512	19800929
	JP60056729B	B4	19851211		
PRAI-	JP 1980-136512		19800929		
AB	Shell mold binders are prepd. from PhOH 100, bisphenol A distn. residues 100-1000, and HCHO 20-520 parts in the presence of acid or base catalysts. Thus, a mixt. of PhOH 120, distn. residues 480, 37% HCHO 257, and oxalic acid 2.1 g was refluxed 150 min, adjusted to pH 3-4 with ethanolamine, dehydrated at 700 mm until the temp. reached 180.degree., mixed with 19 g wax and 19 g salicylic acid, and cooled to give a resin having m.p. 73.degree. and wt.-av. mol. wt. 1810. A compn. of sand (preheated at 160.degree.) 8000, the above resin 160, hexamethylenetetramine 24, H2O 120, and Ca stearate 8 g was stirred to give shell mold materials having setting temp. 101.degree., flexural strength (cured product) 34.9 kg/cm2, and expansion by sudden heating 1.34%, compared with 103, 32.3, and 1.51, resp., for a similar compn. contg. a conventional novolak resin binder.				
ST	shell mold binder resin; bisphenol A distn residue ; phenolic resin binder				
IT	Phenolic resins, preparation RL: PREP (Preparation) (manuf. of, from distn. residues of bisphenol A, for shell mold binders)				
IT	Molds (forms) (shell, binders for, phenolic resins based on distn. residues of bisphenol A as)				
IT	50-00-0D, polymers with bisphenol A distn. residues and phenol 108-95-2D, polymers with formaldehyde and bisphenol A distn. residues RL: USES (Uses) (binders, for shell molds)				